

MULTILAYERED ARTICLES AND METHOD OF MANUFACTURE THEREOF

ABSTRACT

[0099] Disclosed herein is a multilayered sheet comprising a core layer comprising a thermoplastic polymer and an IR absorbing additive; a first cap layer comprising a thermoplastic polymer and an electromagnetic radiation absorbing additive; wherein a surface of the first cap layer is disposed upon and in intimate contact with a surface of the core layer. Disclosed herein too is a method for manufacturing a multilayered sheet comprising melt blending a composition comprising a thermoplastic polymer and an IR absorbing additive to produce a core layer; melt blending a composition comprising a thermoplastic polymer and an ultraviolet radiation absorber to produce a first cap layer; combining the core layer with the first cap layer in such a manner that the cap layer is disposed upon and in intimate contact with a surface of the core layer.